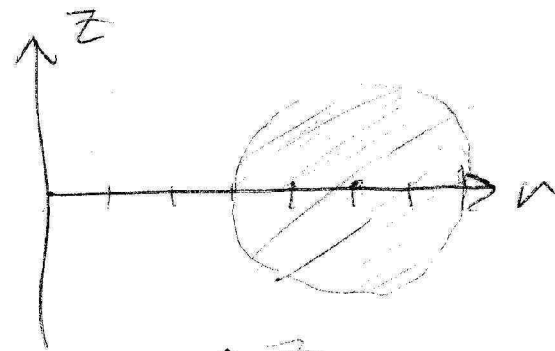


① Let H be the solid torus (donut) HW40

$$\{(x, y, z) \mid (r - 5)^2 + z^2 \leq 4\}$$

Assuming density 3 , find I_y & I_z .



② Let H be the tetrahedron

$$\{(x, y, z) \mid 0 \leq x, y, z \text{ \& } x + y + z \leq 2\}$$

Assuming density $dm/dV = x$, find

the moment of inertia with respect to the line

$$L = \{(x, y, z) \mid x = 3y \text{ and } z = 1\}$$

